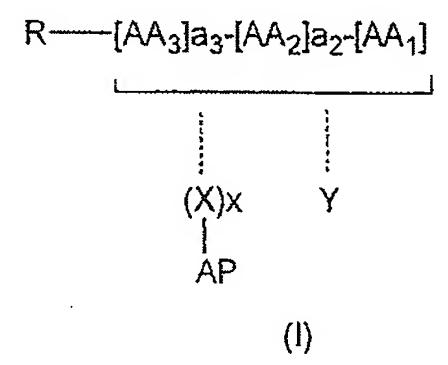
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## Amendments to the Claims:

1. (Original) A compound corresponding to formula (I) below:



in which:

AP represents an active principle capable of acting on a biological target;

x represents an integer chosen from 0 and 1;

X represents a peptide chain comprising from 1 to 5 amino acids;

AA<sub>1</sub>, AA<sub>2</sub> and AA<sub>3</sub>, which may be identical or different, each represent an amino acid; a<sub>2</sub> and a<sub>3</sub>, which may be identical or different, each represent an integer chosen from 0 and 1;

R represents a group chosen from:

- any molecule capable of being recognized by the target of the active principle AP, and
- a hydrophilic agent for modulating the HLB balance of the molecule of formula (I), R being chosen from monosaccharides, aminated derivatives of sugars, polysaccharides, natural or synthetic hormones, peptides, antibodies, polyethers and polyols,

Y represents a fluorinated  $C_4$ - $C_{12}$  hydrocarbon-based chain containing a group  $\begin{bmatrix} 0 \\ -1 \end{bmatrix}$ -NH-, O-CO-NH-, S or O that allows its attachment either to one of the ends of the peptide chain  $[AA_3]_{a3}$ - $[AA_2]_{a2}$ - $[AA_1]$ , or to the side chain of one of the amino acids  $AA_1$ ,  $AA_2$  or  $AA_3$ ;

the linkage between AP-(X)<sub>x</sub> and the chain  $[AA_3]_{a3}$ - $[AA_2]_{a2}$ - $[AA_1]$  occurring via the side chain of one of the amino acids  $AA_1$ ,  $AA_2$  or  $AA_3$  or at the end of the peptide chain.

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- 2. (Currently Amended) The compound as claimed in claim 1, <del>characterized in that</del> wherein the active principle is chosen from those that have anticancer activity, or free-radical scavenger, anti-inflammatory, antiseptic, analgesic, neuroleptic or antifungal activity.
- 3. (Currently Amended) The compound as claimed in Claim 1, wherein either one of claims 1 and 2, characterized in that the active principle is a linear, branched or cyclic molecule containing from 1 to 30 carbon atoms, one or more unsaturations, in particular one or more aromatic rings, and one or more functions chosen from: -O-, -S-, -OH, -SH, -Cl, -F, -Br,

-I, 
$$-N-$$
,  $-NH-$ ,  $-NH_2$ ,  $-C-$ ,  $-COH$ ,  $-COOH$ ,  $-CONH_2$ ,  $-COO-$ ,  $-CONH-$ ,  $-COOH$ ,  $-OH$ ,  $-O$ 

- 4. (Currently Amended) The compound as claimed in Claim 1, wherein any one of claims 1 to 3, characterized in that the amino acid attached to AP- $(X)_x$  or to Y via its side chain is chosen from those containing an acid, amide, amine, thiol or alcohol function on their side chain.
- 5. (Currently Amended) The compound as claimed in Claim 1, wherein any one of claims 1 to 4, characterized in that the spacer arm X comprises 1 to 3 amino acids.
- 6. (Currently Amended) The compound as claimed in Claim 1, wherein any one of claims 1 to 5, characterized in that R is a peptide chosen from antibody fragments or epitopes having a pronounced affinity for the AP's biological target.

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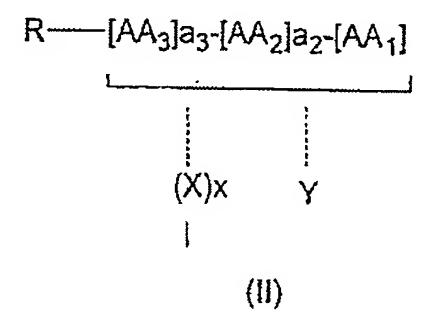
7. (Currently Amended) The compound as claimed in claim 6, which characterized in that it contains at least one peptide sequence chosen from the Arg-Gly-Asp sequence.

- 8. (Currently Amended) The compound as claimed in Claim 1, wherein any one of claims 1 to 7, characterized in that R consists of a poly(ethylene oxide) chain comprising from 5 to 30 ethylene oxide units or of a polyol consisting of an alkyl chain comprising from 4 to 16 carbon atoms and from 4 to 16 hydroxyl groups.
- 9. (Currently Amended) The compound as claimed in any one of claims 1 to 8, characterized in that Claim 1, wherein R is chosen from: glucose, fructose, mannose, galactose, ribose, glucosamine, lactose, cellobiose, maltose, lactobionamide and sucrose.
- 10. (Currently Amended) The compound as claimed in any one of claims 1 to 9, characterized in that Claim 1, wherein at least one of the spacer arms X, of the peptide chain  $[AA_3]_{a3}$ - $[AA_2]_{a2}$ - $[AA_1]$  and of R contains at least one tyrosine residue.
- 11. (Currently Amended) The compound as claimed in any one of claims 1-to-10, eharacterized in that Claim 1, wherein the fluorinated hydrocarbon-based chain Y is chosen from those corresponding to the formula A-Y' in which A represents a group chosen from:  $-\overset{\circ}{C}_{-}$ , -NH-, -O-CO-NH-, S and O and Y' represents a molecule corresponding to the formula  $-(CH_2)_t$   $(CF_2)_t$ F, in which r and t represent two integers with:  $12 \ge r + t \ge 4$ .

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12. (Original) A biologically active molecule comprising a fragment of formula (II):



in which x represents an integer chosen from 0 and 1;

X represents a peptide chain comprising from 1 to 5 amino acids;

AA<sub>1</sub>, AA<sub>2</sub> and AA<sub>3</sub>, which may be identical or different, each represent an amino acid; a<sub>2</sub> and a<sub>3</sub>, which may be identical or different, each represent an integer chosen from 0 and 1;

R is chosen from monosaccharides, aminated derivatives of sugars, polysaccharides, polyethers, polyols, peptides, natural or synthetic hormones, and antibodies;

Y represents a fluorinated  $C_4$ - $C_{12}$  hydrocarbon-based chain containing a group  $\begin{bmatrix} 0 \\ -1 \end{bmatrix}$ , -NH, -O-CO-NH-, S or O that allows its attachment either to one of the ends of the peptide chain  $[AA_3]_{a3}$ - $[AA_2]_{a2}$ - $[AA_1]$ , or to the side chain of one of the amino acids  $AA_1$ ,  $AA_2$  or  $AA_3$ , and at least one of the spacer arms X, of the peptide chain  $[AA_3]_{a3}$ - $[AA_2]_{a2}$ - $[AA_1]$  and of R contains at least one tyrosine residue.

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13. (Currently Amended) The compound as claimed in Claim 1, any one of claims 1 to 9, characterized in that it corresponds corresponding to formula (Ia):

in which:

Su represents a group chosen from a monosaccharide, an aminated monosaccharide derivative, a polysaccharide, a polyol or a polyether;

 $AA_1$  represents an amino acid carrying an acid, amine, alcohol or thiol function on its side chain, by means of which it is attached either to  $(X)_x$ -AP or to Y;  $AA_1$  is attached to Su and either to  $(X)_x$ -AP, or to Y, via its N- and C-terminal ends;

AP represents an active principle capable of acting on a biological target;

x represents an integer chosen from 0 and 1;

X represents a peptide chain comprising from 1 to 5 amino acids;

Y represents a fluorinated  $C_4$ - $C_{12}$  hydrocarbon-based chain containing a function chosen from  $\begin{bmatrix} 0 \\ -C_- \end{bmatrix}$  -NH, -O-CO-NH-, S and O that allows its attachment either to one of the ends of the amino acid AA<sub>1</sub>, or to the side chain of AA<sub>1</sub>.

- 14. (Currently Amended) The compound as claimed in claim 13, characterized in that wherein one or more of the conditions below are verified:
  - Su represents a monosaccharide or a polysaccharide;
- X represents a spacer arm that is peptide in nature, containing at least one tyrosine residue;
  - AA<sub>1</sub> represents an amino acid chosen from arginine and lysine;

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- Y represents a fluorinated  $C_6$ - $C_{12}$  hydrocarbon-based chain containing from 5 to 23 fluorine atoms, attached to the amino acid  $AA_1$  via an -NH- function.

- 15. (Currently Amended) The compound as claimed in claim 14, characterized in that wherein the active principle is chosen from molecules capable of blocking the angiogenic process, in particular thalidomide.
- 16. (Currently Amended) The compound as claimed in claim 15, <del>characterized in that it corresponds</del> corresponding to formula A:

Molecule A

17. (Currently Amended) The compound as claimed in claim 15, characterized in that wherein the active principle AP is chosen from free-radical scavengers, in particular N-benzylidene-tert-butylamine oxide derivatives.

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18. (Currently Amended) The compound as claimed in claim 17, <del>characterized in that it corresponds</del> corresponding to formula E:

Molecule E

19. (Currently Amended) The compound as claimed in claim 12, <del>characterized in that it corresponds</del> corresponding to formula (Ib):

Pep-
$$[AA_1]$$
-Y
(Ib)

in which:

AA<sub>1</sub> represents an amino acid carrying an acid, amine, alcohol or thiol function on its side chain,

Y represents a fluorinated  $C_4$ - $C_{12}$  hydrocarbon-based chain containing a function chosen from  $\begin{bmatrix} 0 \\ -C_- \end{bmatrix}$ -NH, -O-CO-NH-, S and O that allows its attachment either to one of the ends of the amino acid AA<sub>1</sub>, or to the side chain of AA<sub>1</sub>,

Pep represents a peptide chain containing from 2 to 10, preferably from 4 to 6, amino acids, at least one of Pep and of AA<sub>1</sub> containing at least one tyrosine unit.

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- 20. (Currently Amended) The compound as claimed in claim 19, <del>characterized in that wherein Pep contains an arginine-glycine-aspartic acid sequence.</del>
- 21. (Currently Amended) The compound as claimed in Claim 1, either one of claims 19 and 20, characterized in that it corresponds corresponding to formula B:

Molecule B

22. (Currently Amended) The compound as claimed in Claim 1, any one of claims 1 to 11, characterized in that it corresponds corresponding to formula (Ic):

in which:

AP represents an active principle capable of acting on a biological target; Pep represents a peptide chain containing from 2 to 10 amino acids; x represents an integer chosen from 0 and 1;

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X represents a peptide chain comprising from 1 to 5 amino acids;

AA<sub>1</sub> represents an amino acid carrying an acid, amine, alcohol or thiol function on its side chain;

Y represents a fluorinated  $C_4$ - $C_{12}$  hydrocarbon-based chain containing a function chosen from  $\begin{bmatrix} 0 \\ -C_- \end{bmatrix}$  -NH, -O-CO-NH-, S and O that allows its attachment either to one of the ends of the amino acid AA<sub>1</sub>, or to the side chain of AA<sub>1</sub>.

23. (Currently Amended) The compound as claimed in claim 22, <del>characterized in that wherein</del> one or more of the conditions below are verified:

Pep is a peptide recognized by  $\alpha V\beta 3$  integrins and AP is an antimitotic agent;

X, Pep or AA<sub>1</sub> contains at least one tyrosine residue;

X represents a chain of 1 to 3 amino acids.

24. (Currently Amended) The compound as claimed in claim 22 or 23, characterized in that it corresponds corresponding to one of formulae C, D and F:

Molecule C (Ara-C)

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Molecule **D** (Melphalan)

Molecule F

- 25. (Currently Amended) The compound as claimed in claim 22, characterized in that wherein AP is adriamycin and X or Pep contain a Gly-Phe-Leu-Gly fragment.
- 26. (Currently Amended) The compound as claimed in claim 22, characterized in that wherein AP is chosen from melphalan, 5-fluorouracil and imatinib mesylate.

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27. (Currently Amended) A pharmaceutical composition comprising a compound as claimed in any one of claims 1 to 11 and 13 to 18 Claim 1 in a pharmaceutically acceptable carrier.

- 28. (Currently Amended) The use of a compound of formula A, C, D or F as claimed in either of claims 16 and 24 Claim 16, for preparing a pharmaceutical composition intended to prevent and/or treat cancer.
- 29. (Original) The use of a compound of formula B as claimed in claim 21, for preparing a pharmaceutical composition intended to detect the presence of cancerous cells.
- 30. (Original) The use of a compound of formula E as claimed in claim 18, for preparing a pharmaceutical composition intended to prevent and/or treat pathologies associated with oxidative stress and with the formation of oxygenated free-radical species.